

WHAT IS CLAIMED IS:

1 1. A hinge comprising:

2 an elongated bracket adapted to be securely connected to a display;

3 at least one fixing seat pivotally connected to the bracket and having two pairs
4 of through holes respectively defined in a top portion and a bottom portion of the fixing
5 seat;

6 at least one base adapted to securely connected to a support and having two
7 upright walls each having a first pivot hole and a second pivot hole and a shaft securely
8 sandwiched between the two upright walls;

9 at least one first arm having a first end pivotally connected to the first pivot
10 holes of the two upright walls and a second end pivotally connected to one of the two
11 pairs of through holes; and

12 at least one second arm having a first end pivotally connected to the second
13 pivotal holes of the two upright walls and a second end pivotally connected to the other
14 pair of the two pairs of through holes of the fixing seat such that the display attached to
15 the bracket is able to have height and angle adjustment.

16 2. The hinge as claimed in claim 1 further comprising at least one spring having
17 a first end securely connected to a connecting hole in a side face of the second arm and a
18 second end extending over the shaft and connected to the base to provide a recovery
19 force to the bracket when the bracket is moving from a lower position to an upper
20 position.

21 3. The hinge as claimed in claim 2, wherein the base further has a fixing plate
22 extending out from the two upright walls and having a fixing hole such that the second
23 end of the spring is able to be securely connected to the fixing hole to provide the

1 recovery force.

2 4. The hinge as claimed in claim 3, wherein the at least one first arm is
3 composed of two arms and a bridge securely connecting the two arms together, each arm
4 of the at least one first arm has a first pivotal hole and a second pivotal hole, and
5 wherein the at least one second arm is composed of two arms and a bridge
6 securely connecting the two arms together, each arm of the at least one second arm has a
7 first pivotal hole and a second pivotal hole

8 whereby the at least one first arm has two first pivotal holes which are aligned
9 with the first holes of the two upright walls and two second pivotal holes which are
10 aligned with one pair of the two pairs of through holes of the fixing seat, the at least one
11 second arm has two first pivotal holes which are aligned with the second holes of the
12 two upright walls and two second pivotal holes which are aligned with the other one pair
13 of the two pairs of through holes of the fixing seat.

14 5. The hinge as claimed in claim 1, wherein at least one first washer assembly is
15 applied to a pivotal engagement between the at least one second arm and one of the two
16 upright walls to provide necessary friction.

17 6. The hinge as claimed in claim 3, wherein at least one first washer assembly is
18 applied to a pivotal engagement between the at least one second arm and one of the two
19 upright walls to provide necessary friction.

20 7. The hinge as claimed in claim 4, wherein at least one first washer assembly is
21 applied to a pivotal engagement between the at least one second arm and one of the two
22 upright walls to provide necessary friction.

23 8. The hinge as claimed in claim 1, wherein at least one second washer assembly
24 is applied to a pivotal engagement between the fixing seat and the bracket to provide a

1 necessary friction.

2 9. The hinge as claimed in claim 3, wherein at least one second washer assembly
3 is applied to a pivotal engagement between the fixing seat and the bracket to provide a
4 necessary friction.

5 10. The hinge as claimed in claim 4, wherein at least one second washer
6 assembly is applied to a pivotal engagement between the fixing seat and the bracket to
7 provide a necessary friction.

8 11. The hinge as claimed in claim 7, wherein at least one second washer
9 assembly is applied to a pivotal engagement between the fixing seat and the bracket to
10 provide a necessary friction.

11 12. The hinge as claimed in claim 1, wherein a side face of the two upright walls
12 is formed with a saddle having positioning recesses defined therein and a limiting block
13 is formed on a side face of the at least one second arm to correspond to the positioning
14 recesses such that when the at least one second arm is pivoted relative to the base, the
15 limiting block is moving in the positioning recesses to provide a temporary positioning
16 effect to the at least one second arm.

17 13. The hinge as claimed in claim 4, wherein a side face of the two upright walls
18 is formed with a saddle having positioning recesses defined therein and a limiting block
19 is formed on a side face of the at least one second arm to correspond to the positioning
20 recesses such that when the at least one second arm is pivoted relative to the base, the
21 limiting block is moving in the positioning recesses to provide a temporary positioning
22 effect to the at least one second arm.

23 14. The hinge as claimed in claim 7, wherein a side face of the two upright walls
24 is formed with a saddle having positioning recesses defined therein and a limiting block

1 is formed on a side face of the at least one second arm to correspond to the positioning
2 recesses such that when the at least one second arm is pivoted relative to the base, the
3 limiting block is moving in the positioning recesses to provide a temporary positioning
4 effect to the at least one second arm.

5 15. The hinge as claimed in claim 8, wherein a side face of the two upright walls
6 is formed with a saddle having positioning recesses defined therein and a limiting block
7 is formed on a side face of the at least one second arm to correspond to the positioning
8 recesses such that when the at least one second arm is pivoted relative to the base, the
9 limiting block is moving in the positioning recesses to provide a temporary positioning
10 effect to the at least one second arm.

11 16. The hinge as claimed in claim 11, wherein a side face of the two upright
12 walls is formed with a saddle having positioning recesses defined therein and a limiting
13 block is formed on a side face of the at least one second arm to correspond to the
14 positioning recesses such that when the at least one second arm is pivoted relative to the
15 base, the limiting block is moving in the positioning recesses to provide a temporary
16 positioning effect to the at least one second arm.

17 17. The hinge as claimed in claim 1, wherein the at least one fixing seat has two
18 positioning wedges formed on a side face of the at least one fixing seat and the second
19 washer assembly has a stop formed to correspond to the two positioning wedges so that
20 when the bracket is pivoted relative to the at least one fixing seat, movement of the stop
21 between the two positioning wedges prevents excessive travel of the display.

22 18. The hinge as claimed in claim 11 wherein the at least one fixing seat has two
23 positioning wedges formed on a side face of the at least one fixing seat and the second
24 washer assembly has a stop formed to correspond to the two positioning wedges so that

1 when the bracket is pivoted relative to the at least one fixing seat, movement of the stop
2 between the two positioning wedges prevents excessive travel of the display.

3 19. The hinge as claimed in claim 16, wherein the at least one fixing seat has
4 two positioning wedges formed on a side face of the at least one fixing seat and the
5 second washer assembly has a stop formed to correspond to the two positioning wedges
6 so that when the bracket is pivoted relative to the at least one fixing seat, movement of
7 the stop between the two positioning wedges prevents excessive travel of the display.